

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P04588500	FOR FURTHER ACTION		See Form PCT/IPEA/416
International application No. PCT/JP 03 / 14843	International filing date (day/month/year) 20.11.2003	Priority date (day/month/year) 25.11.2002	
International Patent Classification (IPC) or national classification and IPC Int.Cl. 7 G02B 1/10, G02B 5/02, B32B7/02			
Applicant FUJI PHOTO FILM CO., LTD.			

1.	This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2.	This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.
3.	This report is also accompanied by ANNEXES, comprising: <div style="margin-left: 20px;"> a. <input type="checkbox"/> a total of _____ sheets, as follows: <div style="margin-left: 20px;"> <input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <div style="margin-left: 20px;"> <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. </div> </div> </div>
b.	<input type="checkbox"/> a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4.	This report contains indications relating to the following items: <div style="margin-left: 20px;"> <input checked="" type="checkbox"/> Box No. I Basis of the report <input type="checkbox"/> Box No. II Priority <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability <input type="checkbox"/> Box No. IV Lack of unity of invention <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement <input type="checkbox"/> Box No. VI Certain documents cited <input type="checkbox"/> Box No. VII Certain defects in the international application <input type="checkbox"/> Box No. VIII Certain observations on the international application </div>

Date of submission of the demand 17.02.2004	Date of completion of this report 01.12.2004	
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Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☒ the international application as originally filed/furnished
- ☐ the description:
- pages _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the claims:
- pages _____ as originally filed/furnished
- pages* _____ as amended (together with any statement) under Article 19
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the drawings:
- pages _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (specify): _____
- ☐ any table(s) related to sequence listing (specify): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (specify): _____
- ☐ any table(s) related to sequence listing (specify): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1 - 20</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>3, 13</u>	YES
	Claims	<u>1, 2, 4 - 12, 14 - 20</u>	NO
Industrial applicability (IA)	Claims	<u>1 - 20</u>	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

The following documents have been considered for the purpose of this report:

- D1 = JP 2001-281407 A(FUJI PHOTO FILM CO.,LTD),2001.10.10
 - D2 = US 2002/0034013 A1(Kazuhiro Nakamura),2002.03.21
 & JP 2002-40204 A
 ✓ D3 = US 2001/0035929 A1(Kazuhiro Nakamura),2001.11.01
 & JP 2001-281411 A
 ✓ D4 = US 2002/0085284 A1(Kazuhiro Nakamura),2002.07.04
 & JP 2002-202402 A
 ✓ D5 = JP 2002-82207 A(FUJI PHOTO FILM CO.,LTD),2002.03.22
 ✓ D6 = JP 2002-82206 A(TOPPAN INSATSU CO.,LTD),2002.03.22

Claim 1

The subject matter of claim 1 does not appear to involve an inventive step in view of the D1 cited in the ISR and the D2 cited in the same.

In the D1, an anti-reflection film comprising a transparent support, at least one hard coat layer and outermost low refractive index layer, wherein (a) the surface of the anti-reflection film has a central line average roughness: Ra of not greater than $0.15 \mu\text{m}$, (b) the hard coat layer comprises at least one kind of particle includes a particle, is described.

In the D2, an anti-reflection film comprising a transparent support, at least one hard coat layer and outermost low refractive index layer, wherein (c) the hard coat layer comprises at least one kind of particle includes a particle having an average particle diameter of not smaller than 80% of the thickness of the hard coat layer and cut point value(CP value) of coarse particle in the hard coat layer is less than 4 times the thickness of the hard coat layer, is described.

Technical features a hard coat layer and a hard coat layer, disclosed in D1 and D2 respectively, have the same function and are related to similar technical fields.

Therefore, the skilled person in the art would easily conceive the idea of employing the feature a hard coat layer comprises particles in D2 to substitute the feature a hard coat layer comprises particles disclosed in D1.

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of: V

Claim 11

The subject matter of claim 11 does not appear to involve an inventive step in view of the D1 and the D2.

In the D2, an anti-reflection film comprising a transparent support, at least one hard coat layer and outermost low refractive index layer, wherein (c) the hard coat layer comprises at least one kind of particle includes a particle having an average particle diameter of not smaller than 80% of the thickness of the hard coat layer and the particle in the hard coat layer satisfies a relationship represented by the following formula(1):

$$0 \mu m \leq d_{\max} - d_{\min} \leq 7 \mu m \quad (1)$$

, is described.

Technical features a hard coat layer and a hard coat layer, disclosed in D1 and D2 respectively, have the same function and are related to similar technical fields.

Therefore, the skilled person in the art would easily conceive the idea of employing the feature a hard coat layer comprises particles in D2 to substitute the feature a hard coat layer comprises particles disclosed in D1.

Claim 4,6,8-10,14,16,18-20

The subject matters of claim 4,6,8-10,14,16,18-20 do not appear to involve an inventive step in view of the D1 and the D2.

In the D1, an anti-reflection film whose surface has a central line average roughness: R_a of not greater than $0.10 \mu m$, a polarizing plate comprising a polarizer and two protective films of the polarizer, wherein one of the two protective films of the polarizer is the anti-reflection film, are described.

In the D1, a polarizing plate that has technical features described in claim 8-10 or 18-20, is described.

Claim 5,15

The subject matter of claim 5,15 do not appear to involve an inventive step in view of the document D1,D2 and the D3 cited in the ISR.

In the D3, the anti-reflection film that has a value of transmitted image sharpness of from not smaller than 40% to less than 97% as measured at a comb width of 0.5mm.

Claim 2,7,12,17

The subject matter of claim 5,15 do not appear to involve an inventive step in view of the document D1,D2 and the D4 cited in the ISR.

In the D4, the anti-reflection film having the hard coat layer, wherein the hard coat layer contains particles having an average particle diameter of less than 80% of the thickness of the hard coat layer and providing an internal scattering property to the hard coat, is described.

In the D4, a polarizing plate that has technical features described in claim 7 or 17, is described.

Claim 3,13

The subject matter of claim 3 or 13 is neither disclosed in any of the documents cited in the ISR nor obvious to a person skilled in the art.